**Product data sheet** 

# 1. General description

The 74AHC30; 74AHCT30 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL (LSTTL). It is specified in compliance with JEDEC standard No. 7-A.

The 74AHC30; 74AHCT30 provides an 8-input NAND function.

### 2. Features and benefits

- · Balanced propagation delays
- · All inputs have Schmitt-trigger actions
- Inputs accept voltages higher than V<sub>CC</sub>
- Input levels:
  - For 74AHC30: CMOS level
  - For 74AHCT30: TTL level
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- · Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

## 3. Ordering information

**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74AHC30D 74AHCT30D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74AHC30PW 74AHCT30PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74AHC30BQ 74AHCT30BQ	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	SOT762-1
74AHC30GU12	-40 °C to +125 °C	XQFN12	plastic, extremely thin quad flat package; no leads; 12 terminals; body 1.70 × 2.0 × 0.50 mm	SOT1174-1



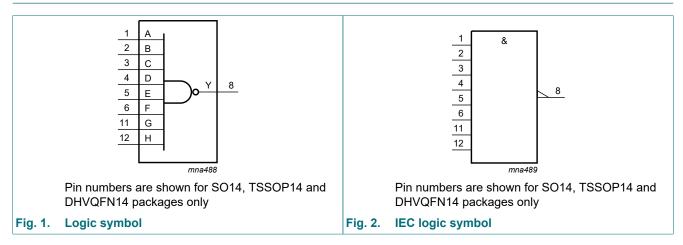
# 4. Marking

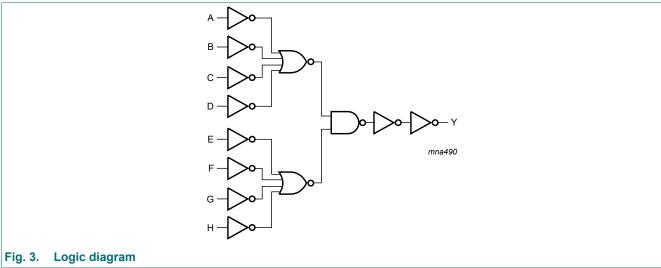
#### Table 2. Marking codes

labio 21 marking occoo					
Type number	Marking				
74AHC30D	74AHC30D				
74AHCT30D	74AHCT30D				
74AHC30PW	AHC30				
74AHCT30PW	AHCT30				
74AHC30BQ	AHC30				
74AHCT30BQ	AHT30				
74AHC30GU12	A3 [1]				

<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

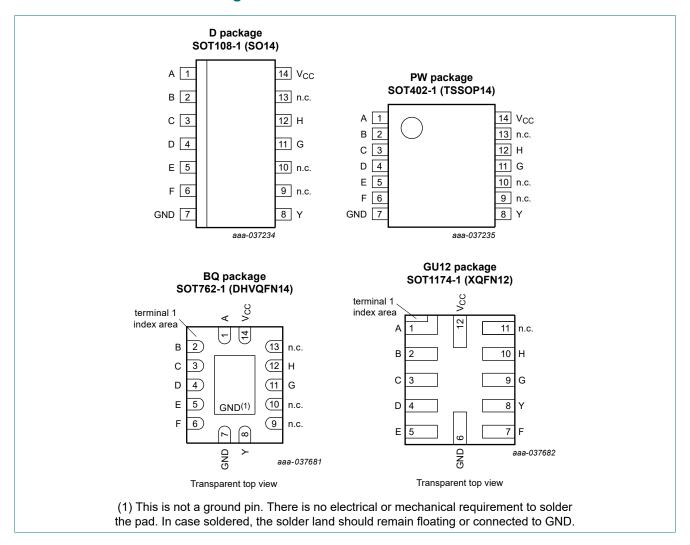
# 5. Functional diagram





# 6. Pinning information

### 6.1. Pinning



# 6.2. Pin description

Table 3. Pin description

	Pin				
4, TSSOP14 and DHVQFN14	XQFN12				
	1	data input			
	2	data input			
	3	data input			
	4	data input			
	5	data input			
	7	data input			
	6	ground (0 V)			
	8	data output			
	-	not connected			
	-	not connected			
	9	data input			
	10	data input			
	11	not connected			
	12	supply voltage			
	4, 1030F 14 aliu Driverni4	1 2 3 4 5 5 7 6 6 8 8 9 9 10 11			

# 7. Functional description

#### **Table 4. Function table**

H = HIGH voltage level; L = LOW voltage level; X = don't care.

Input								Output
Α	В	С	D	E	F	G	Н	Υ
L	Х	X	Х	Х	Х	Х	Х	Н
Х	L	Х	Х	Х	Х	Х	Х	Н
Х	X	L	Х	Х	Х	Х	Х	Н
Х	X	Х	L	Х	Х	Х	Х	Н
X	X	Х	Х	L	X	Х	Х	Н
X	X	Х	Х	X	L	Х	Х	Н
Х	X	X	Х	X	Х	L	Х	Н
X	Х	Х	Х	X	X	Х	L	Н
Н	Н	Н	Н	Н	Н	Н	Н	L

# 8. Limiting values

#### **Table 5. Limiting values**

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_1 < -0.5 \text{ V}$ [1]	-20	-	mA
lok	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-20	+20	mA
I <sub>O</sub>	output current	$V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-25	+25	mA
I <sub>CC</sub>	supply current		-	+75	mA
$I_{GND}$	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C			
		SOT108-1 (SO14) [2] SOT402-1 (TSSOP14) SOT762-1 (DHVQFN14)	-	500	mW
		SOT1174-1 (XQFN12)	-	250	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		74AHC30 74AHCT30				0	Unit
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	Vcc	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	and fall rate	$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	-	-	20	-	-	20	ns/V

<sup>[2]</sup> For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C. For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C. For SOT762-1 (DHVQFN14) package: P<sub>tot</sub> derates linearly with 9.6 mW/K above 98 °C.

# 10. Static characteristics

#### **Table 7. Static characteristics**

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
74AHC3	0								'	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V	3.94	-	-	3.80	-	3.70	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
C <sub>I</sub>	input capacitance	V <sub>I</sub> = V <sub>CC</sub> or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHCT	30						-			
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.8	-	8.0	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$								
	output voltage	Ι <sub>Ο</sub> = -50 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$								
	output voltage	Ι <sub>Ο</sub> = 50 μΑ	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
Icc	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	2.0	-	20	-	40	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$ ; other pins at $V_{CC}$ or GND; $I_O = 0 \text{ A}$ ; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance	V <sub>I</sub> = V <sub>CC</sub> or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

# 11. Dynamic characteristics

#### **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC3	0								'	
t <sub>pd</sub>	propagation	A, B, C, D, E, F, G, H to Y; see	Fig. 4	and Fig	<u>. 5</u> [2]					
	delay	V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	-	5.0	9.5	1.0	11.0	1.0	12.0	ns
		C <sub>L</sub> = 50 pF	-	6.7	12.0	1.0	14.5	1.0	15.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								•
		C <sub>L</sub> = 15 pF	-	3.6	6.5	1.0	7.5	1.0	8.0	ns
		C <sub>L</sub> = 50 pF	-	4.9	8.0	1.0	9.5	1.0	10.5	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz};$ [3] $V_I = \text{GND to } V_{CC}$	-	10	-	-	-	-	-	pF
74AHCT	30; V <sub>CC</sub> = 4.5	V to 5.5 V		•						•
t <sub>pd</sub>	propagation	A, B, C, D, E, F, G, H to Y; see	Fig. 4	and Fig	<u>. 5</u> [2]					
	delay	C <sub>L</sub> = 15 pF	-	3.3	6.5	1.0	7.5	1.0	8.0	ns
		C <sub>L</sub> = 50 pF	-	4.7	8.5	1.0	9.5	1.0	10.5	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz};$ [3] $V_I = \text{GND to } V_{CC}$	-	12	-	-	-	-	-	pF

Typical values are measured at nominal supply voltage ( $V_{CC}$  = 3.3 V and  $V_{CC}$  = 5.0 V).

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$$
 where:

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

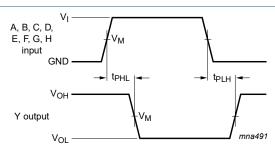
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_0)$  = sum of the outputs.

 $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

### 11.1. Waveforms



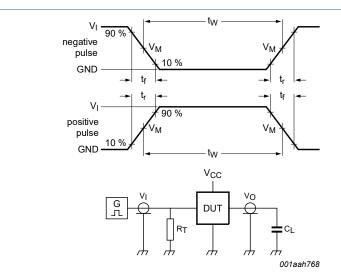
Measurement points are given in Table 9.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig. 4. Input to output propagation delays

**Table 9. Measurement points** 

Туре	Input	Output
	V <sub>M</sub>	V <sub>M</sub>
74AHC30	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
74AHCT30	1.5 V	0.5 × V <sub>CC</sub>



Test data is given in Table 10.

Definitions for test circuit:

 $R_T$  = termination resistance should be equal to the output impedance  $Z_0$  of the pulse generator;

 $C_L$  = load capacitance including jig and probe capacitance.

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

Туре	Input Lo		Load	Test
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	
74AHC30	V <sub>CC</sub>	≤ 3.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>
74AHCT30	3.0 V	≤ 3.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>

# 12. Package outline

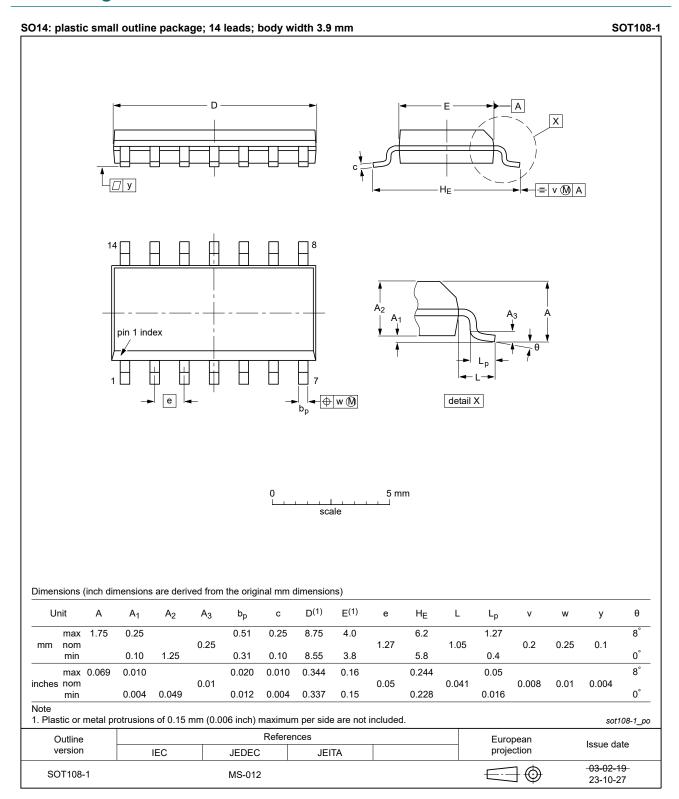


Fig. 6. Package outline SOT108-1 (SO14)

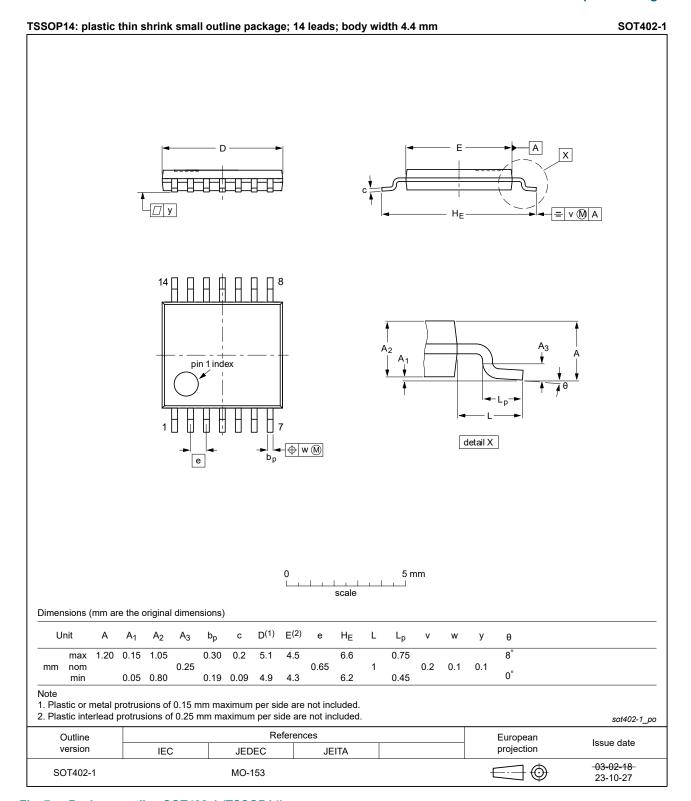


Fig. 7. Package outline SOT402-1 (TSSOP14)

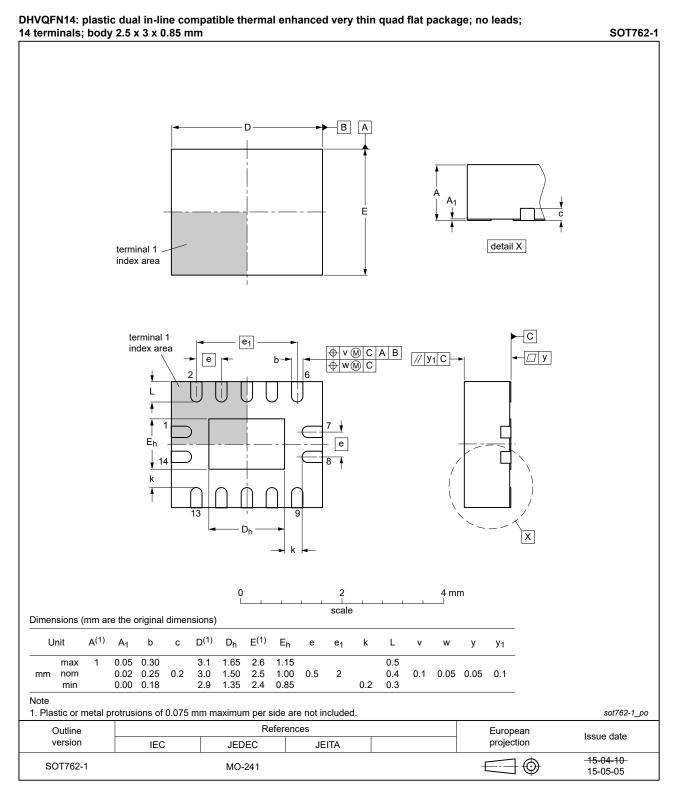


Fig. 8. Package outline SOT762-1 (DHVQFN14)

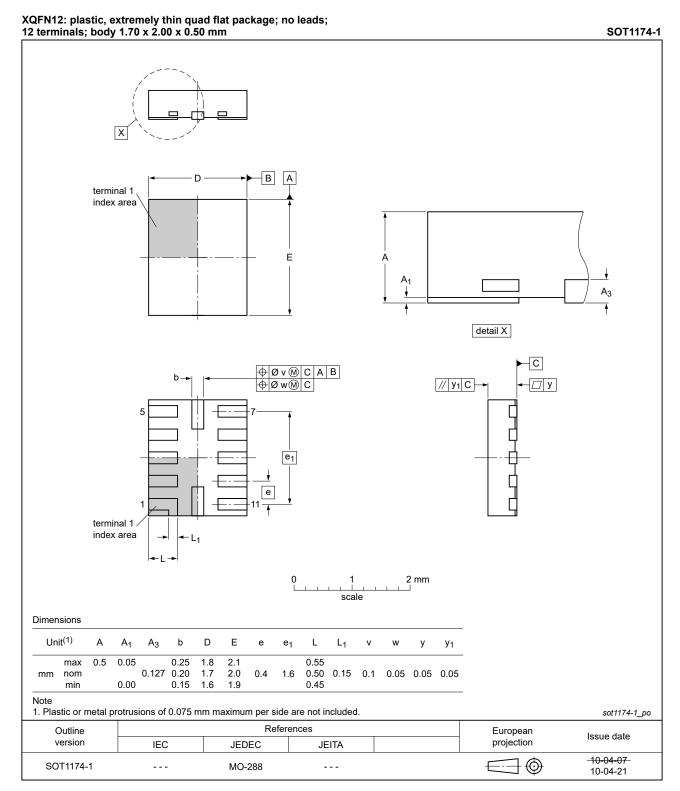


Fig. 9. Package outline SOT1174-1 (XQFN12)

## 13. Abbreviations

#### **Table 11. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
LSTTL	Low-power Schottky Transistor-Transistor Logic

# 14. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AHC_AHCT30 v.7	20240307	Product data sheet	-	74AHC_AHCT30 v.6	
Modifications:	• Fig. 6, Fig. 7: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153.				
74AHC_AHCT30 v.6	20231009	Product data sheet	-	74AHC_AHCT30 v.5	
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74AHC_AHCT30 v.5	20200506	Product data sheet	-	74AHC_AHCT30 v.4	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Table 5: Derating values for P<sub>tot</sub> total power dissipation have been updated.</li> </ul>				
74AHC_AHCT30 v.4	20150722	Product data sheet	-	74AHC_AHCT30 v.3	
Modifications:	Added type number 74AHC30GU12.				
74AHC_AHCT30 v.3	20090626	Product data sheet	-	74AHC_AHCT30 v.2	
Modifications:	<ul> <li><u>Section 3</u>: DHVQFN14 package added.</li> <li><u>Section 8</u>: derating values added for DHVQFN14 package.</li> <li><u>Section 12</u>: outline drawing added for DHVQFN14 package.</li> </ul>				
74AHC_AHCT30 v.2	20080530	Product data sheet	-	74AHC_AHCT30 v.1	
74AHC_AHCT30 v.1	19991130	Product specification	-	-	

## 15. Legal information

#### Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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